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HD system that is different from the CD system, the additional information including the track number and the elapsed time of each piece of music are detected and converted into data equivalent to channel status data and user data conforming to the CD standards for the digital audio interface, which data are then output to the digital interface output. With this arrangement, the advantage of automatically recording the start IDs and the track numbers on the recording medium can also be made available when recording a digital recorder such as DAT or mini-disk.

What is claimed is:

1. A disc recording medium having two layers, wherein a first layer comprises:

a first program area for recording at least one program having a program number and a running time corresponding to each program recorded therein, wherein each program is encoded according to a first format; and

a first management area for recording management data for managing an absolute time corresponding to each program recorded in said first program area;

wherein a second layer comprises:

a second program area for recording at least one program having only absolute time without a program number and a running time, wherein each program is encoded according to a second format; and

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a second management area for recording management data for managing an absolute start time and for use in calculating a program number corresponding to each program in said second program area.

2. The disc recording medium according to claim 1, wherein said program recorded in said first program area of said first layer comprises PCM digital audio information.

3. The disc recording medium according to claim 1, wherein said program recorded in said second program area of said second layer comprises 1-bit digital audio information.

4. A disc recording medium comprising:

a program area for recording therein at least one program and an absolute time without a program number and for recording therein a running time corresponding to each program; and

a management area for recording therein data for managing an absolute start time for each program and for calculating a program number corresponding to each program recorded in the program area.

5. The disc recording medium according to claim 4, wherein the program is modulated by  $\Delta\Sigma$  modulation.

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